h; 50601 Must use procedures = vedace to echelenform - pivat to avoid zero pivols and to avoid tractions -> must be separate step - backsabshimmi write last equation first Ligenvalues: Symmetry matures - I, Iz, --- orthonomy E = E E Created with Doceri

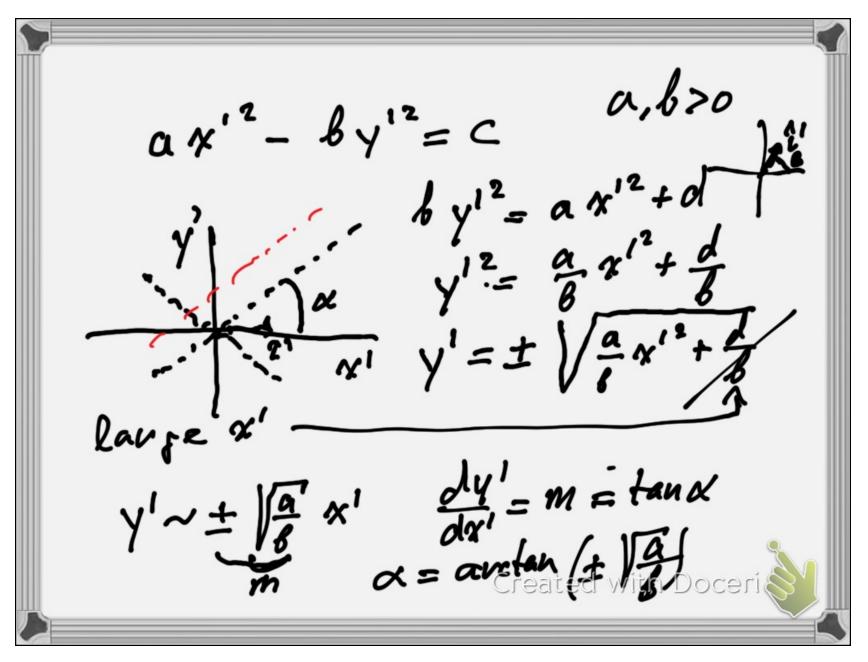
And Quadratez Jom, mast show x'y plane first then xy plane - multiply a vow by number - swap rows and one is Violations not the first row of the current saturalux - swap twia in a submatux - solve lov any thing else than the pital nuknown - do not show brekersebothikie

do not veduce to editor form 392 00 3 563 00 00000 - undetermined con Manko An eigen ve dors Created with Doceri

I O manipalation planes, lines. TZ·N=Tp.N snell vefledion (component subtract ion) (a) averes af frizingles, parallelograms volumes of parable lepiped angles between Livin and planes IIO makere manipalation AB A+B och A<sup>t</sup>, I, Z DLU theorem G. F. Created with Doceria

I Dechelon form, avoid fractions, product, Null Space rank Row Column queth ones ) Determinants, Inverses using minors, G.E. 3. Or symmetric A expension and diagonalization (5) multiple en penvalues and défective (5) quick ones ' Created with Doceria

In symmetric A eigenvalues and vectors (3) transformations E<sup>-1</sup>=E<sup>T</sup> Draw quadratic forms Gram Schmidt Created with Doceri



(1 21) A-XI (11) 1 12) A-XI (11) nom definitive n different eigenvedorg ~ n eigenvalues M if all n different ~ non defedire vepeated eigenvalues Created with Doceri

double eigenvalue  $\Rightarrow \overline{e_1}, \overline{e_2}$  $\begin{aligned}
\vec{l} &= \vec{l}_{i} \\
\vec{l} &= \vec{l}_{i} \\
\vec{l} &= \vec{l}_{2} - \vec{l} (\vec{l}_{2} \cdot \vec{l}) \\
\vec{l} &= \vec{l}_{2} - \vec{l} (\vec{l}_{2} \cdot \vec{l}) \\
\vec{l} &= \vec{l}_{2n} / |\vec{l}_{2n}|
\end{aligned}$ Created with Doceri

